

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A recording and reproducing apparatus for recording a packet stream containing AV transport packets and data table packets for managing the AV transport packets, comprising:

a demultiplexer for demultiplexing a first packet stream into AV transport packets and data table packets;

an AV decoder for decoding the AV transport packets and outputting AV data;

an AV encoder for encoding the AV data and outputting second AV transport packets;

a data table packet generator for constructing second data table packets for managing the second AV transport packets based on the data table packets; and

a multiplexer for multiplexing the second AV transport packets and second data table packets, and outputting a second packet stream;

wherein parental control information contained in the first packet stream is included in management information for managing the second data table packets or second AV transport packets.

2. (Original) A recording and reproducing apparatus as described in claim 1, further comprising a digital tuner for receiving and demodulating digital broadcasts; and

a storage controller for recording the first packet stream or second packet stream;

wherein the first packet stream or the second packet stream stored in the storage controller is input to the demultiplexer.

Claims 3-6 (Canceled)

7. (Currently Amended) A recording and reproducing apparatus as described in claim 2-4, further comprising a program table data processor for collecting program information from the first packet stream or second packet stream and generating a program table; and

a user interface unit for receiving user input;

wherein the demultiplexer outputs the AV transport packets and data table packets for a program selected from the user interface unit.

8. (Currently Amended) A recording and reproducing apparatus as described in claim 7-2, wherein the storage controller records the first packet stream or second packet stream based on input from the user interface unit.

9. (Original) A recording and reproducing apparatus as described in claim 7, wherein the AV encoder determines the compression rate based on input from the user interface unit.

10. (Currently Amended) A recording and reproducing apparatus as described in claim 13, further comprising an age setting unit for inputting a viewer age;
wherein the age set by the age setting unit and the parental control information are compared, and
an AV decoding process is run if the age set by the age setting unit is greater than or equal to the parental control information, and the AV decoding process is prohibited if not.

Claim 11 (Canceled)

12. (Currently Amended) A recording and reproducing method for recording a packet stream containing AV transport packets and data table packets for managing the AV transport packets, comprising:

a first step for demultiplexing a first packet stream into AV transport packets and data table packets;

a second step for decoding the AV transport packets and outputting AV data;

a third step for encoding the AV data and outputting second AV transport packets;

a fourth step for constructing second data table packets for managing the second AV transport packets based on the data table packets; and

a fifth step for multiplexing the second AV transport packets and second data table packets, and outputting a second packet stream;

wherein parental control information contained in the first packet stream is included in management information for managing the second data table packets or second AV transport packets.

13. (Original) A recording and reproducing method as described in claim 12, further comprising a sixth step for receiving and demodulating digital broadcasts; and

a seventh step for determining a recording program to be recorded from the digital broadcast received in the sixth step;

wherein the first step demultiplexes the packet stream of the recording program determined in the seventh step into AV transport packets and data table packets.

Claims 14-17 (Canceled)

18. (Currently Amended) A recording and reproducing method as described in claim 12-14, further comprising ~~a~~an eighth step for entering a viewer age;

wherein the age set by the age setting unit and the parental control information are compared, and

an AV decoding process is run if the age set by the age setting unit is greater than or equal to the parental control information, and the AV decoding process is prohibited if not.

19. (Original) A computer-readable recording medium recording a program for executing on a computer the steps described in claim 12.

20. (Original) A program for executing on a computer the steps described in claim 12.

21. (New) A recording and reproducing apparatus as described in claim 1, wherein the AV data is an analog signal.

22. (New) A recording and reproducing apparatus as described in claim 1, wherein the AV data is a baseband signal.

23. (New) A recording and reproducing method as described in claim 13, further comprising a ninth step for collecting program information from the first packet stream or second packet stream and generating a program table; and
a tenth step for receiving user input;
wherein the first step outputs the AV transport packets and data table packets for a program selected by a user in the tenth step.

24. (New) A recording and reproducing method as described in claim 23, wherein the seventh step determines a recording program of either the first packet stream or second packet stream based on the program selected by the user in the tenth step.

25. (New) A recording and reproducing method as described in claim 13, wherein the third step determines the compression rate based on input from the user in the tenth step.

26. (New) A recording and reproducing method as described in claim 12, wherein the AV data is an analog signal.

27. (New) A recording and reproducing method as described in claim 12, wherein the AV data is baseband signal.